



PATENT

ATTORNEY DOCKET NO.: 056291-17

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT APPLICATION of:

BUTLIN et al.

Appln. No.: 10/069,995 ✓

Filed: June 17, 2002 ✓

FOR: AMIDES AS INHIBITORS FOR
PYRUVATE DEHYDROGENASE ✓

Group Art Unit: 1614

Examiner: Unassigned

Commissioner of Patents
Washington, D.C. 20231

Date: January 23, 2003

Sir:

INFORMATION DISCLOSURE STATEMENTCitation of Related U.S. Patent Applications

The Examiner's attention is directed to the following related co-pending U.S. patent applications:

Examiner's Initials	Inventor	U.S. Serial No.	U.S. Filing Date	PCT Publication No.	PCT Publication Date
	Butlin	09/601,449 USP 6,369,273 issued 4/9/2002	Aug. 2, 2000	WO 99/44618	Sept. 10, 1999
	Clarke et al.	09/622,678	Aug. 22, 2000	WO 99/47508	Sept. 23, 1999
	Butlin et al.	09/700,370 USP 6,498,275	Nov. 15, 2000	WO 99/62506	Dec. 9, 1999
	Butlin et al.	10/277,957	Oct. 23, 2002	WO 99/62506	Dec. 9, 1999
	No. U.S. Equivalent			WO 99/62873	Dec. 9, 1999
	Butlin et al.	10/069,994	Mar. 1, 2002	WO 01/17956 A1	Mar. 15, 2001
	Butlin et al.	10/069,880	Mar. 1, 2002	WO 01/17942 A1	Mar. 15, 2001

PRINTER: DO NOT PRINT
BOVE LIST ON PATENT.

A copy of the specification and claims for each application, either in the form of a U.S. patent issued on that application or the published PCT application from which such application was filed, has previously been provided or is being filed herewith.

PLEASE DO NOT PRINT the above information on the patent resulting from the subject application.

Consideration of each listed application is earnestly solicited since unpublished patent applications are contemplated as IDS material; see the exception in Rule 98(a)(2)(iii) and note the penultimate sentence of MPEP 609.

Further, in keeping with MPEP 609, Subsec. C(2), 2nd para., line 10 to end of the paragraph (especially note lines 18-25) PLEASE RETURN A COPY OF THIS LETTER with the Examiner's initials adjacent each above listing so that applicant will know that each listed application has been considered as required by PTO policy.

Citation of Documents

Attached is a Form PTO-1449 listing the enclosed documents.

The present Information Disclosure Statement is being filed before the mailing date of the first Office Action on the merits, and therefore no certification under 37 CFR §1.97(e) or fee under 37 CFR §1.17(p) is required.

This Information Disclosure Statement is intended to be in full compliance with the rules, but should the Examiner find any part of its required content to have been omitted, prompt notice to that effect is earnestly solicited, along with additional time under Rule 97(f), to enable Applicant to fully comply.

Should a first Action on the merits have been issued on the same day as or before this IDS is filed, please accept this IDS under Rule 97(c) and charge the requisite fee to our Deposit Account under Order No. 056291-5077 and proceed to consider this IDS.

Consideration of the foregoing and enclosures plus the return of a copy of the herewith filed Form PTO-1449 with the Examiner's initials in the left column per MPEP 609 along with an early action on the merits of this application are earnestly solicited.

Except for issue fees payable under 37 C.F.R. §1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. §§1.16 and 1.17 which may be required, including any required extension of time fees, or credit any overpayment to Deposit Account No. 50-0310. This paragraph is intended to be a **CONSTRUCTIVE PETITION FOR EXTENSION OF TIME** -in accordance with 37 C.F.R. §1.136(a)(3).

Respectfully Submitted,
Morgan Lewis & Bockius LLP

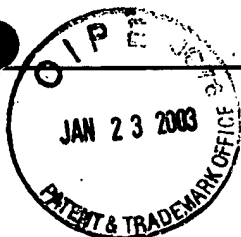


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U.S. PATENT DOCUMENTS

Examiner's Initials*	Document Number	Date MM/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	AR	4,537,618	Schurter et al.			
	BR	5,248,693	Gerspacher et al.			
	CR	5,486,515	Brown et al.			
	DR	5,510,386	Empfield et al.			
	ER	6,369,273	Butlin			
	FR	6,498,275	Butlin et al.			

FOREIGN PATENT DOCUMENTS

		Document Number	Date MM/YYYY	Country	Inventor Name	English Abstract		Translation Readily Available	
						Enclosed	No	Enclose	No
	GR	1 228 355	10/1987	Canada	Schurter et al.				
	HR	0 002 309	06/1979	EPA	Glen et al.				
	IR	0 002 892	07/1979	EPA	Glen				
	JR	0 040 932	12/1981	EPA	Crossley et al.				
	KR	0 079 191	05/1983	EPA	Hughes				
	LR	0 096 002	12/1983	EPA	Schurter et al.				
	MR	0 100 172	02/1984	EPA	Tucker				
	NR	0 253 500	01/1988	EPA	Tucker				
	OR	0 253 503	01/1988	EPA	Tucker				
	PR	0 524 781	01/1993	EPA	Russell et al.				

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

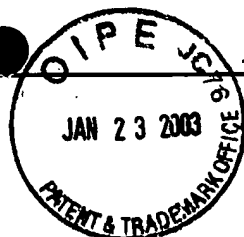
	QR	Bayles et al., "A Smiles Rearrangement Involving Non-Activated Aromatic Systems; the Facile Conversion of Phenols to Anilines", Synthesis, 1977, Vol. 1, pp. 33-34			
	AR	Bayles et al., "The Smiles Rearrangement of 2-Aryloxy-2-methylpropanamides. Synthesis of <i>N</i> -Aryl-2-hydroxy-2-methyl-propanamides", Synthesis, 1977, Vol. 1, pp. 31-33			
	BR	Bebernitz et al., "Anilides of (R)-Trifluoro-2-hydroxy-2-methylpropionic Acid as Inhibitors of Pyruvate Dehydrogenase Kinase", J. Med. Chem., 2000, Vol. 43, No. 11, pp. 2257-2266			
	CR	Empfield et al., "4-sulfonamidoanilide Tertiary Carbinols: A Novel Series Of Potassium Channel Openers", Bioorg Med. Chem. Letters, 1997, Vol. 7, No. 7, pp. 775-778, XP004136128 see table I, compounds e, f			

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*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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						Enclosed	No	Enclose	No
	IR	0 617 010	09/1994	EPA					
	JR	0 625 511	11/1994	EPA	Russell				
	KR	0 625 516	11/1994	EPA	Empfield et al.				
	LR	2 278 054	11/1994	U.K.	Grant et al.				
	MR	93/10094	05/1993	WIPO	Agback et al.				
	NR	93/23358	05/1993	WIPO	Russell et al.				
	OR	94/26739	11/1994	WIPO	Brown et al.				
	PR	96/28151	09/1996	WIPO	Constantin-Teodosiu et al.				
	QR	97/38124	10/1997	WIPO	Crosby et al.				
**	RR	99/44618	09/1999	WIPO	Butlin				
**	SR	99/47508	09/1999	WIPO	Butlin et al.				

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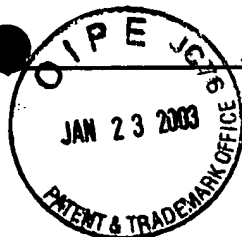
TR	Fenwick, "THE SYNTHESIS OF 2,2-BIS(TRIFLUOROMETHYL)BENZOPYRAN DERIVATIVES: A NEW ROUTE TO AN IMPORT CLASS OF POSTASSIUM CHANNEL ACTIVATORS", Tetrahedron Letters, Vol. 34, No. 11, 1993, pp. 1993				
AR	Furr et al., "A Novel Non-Steroidal, Peripherally Selective Antiandrogen", J. Endocrinol., 1987, Vol. 113 (3), R7-R9				
BR	Glen et al., Structure-Activity Relationships among Non-steriodal Antiandrogens", Third SCI-RSC Medicinal Chemistry Symposium, 1986, Vol. 55, pp. 345-361				
CR	Grant et al., "Anilide Tertiary Carbinols: A New Structural Class Of Potent Potassium Channel Openers", Bioorg. Med. Chem. Lett., 1993, Vol. 3 (12), pp. 2723-2724				

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**	IR	99/62506	12/1999	WIPO	Butlin et al.				
**	JR	99/62873	12/1999	WIPO	Butlin et al.				
**	KR	01/17942	03/2001	WIPO	Butlin et al.				
**	LR	01/17955	03/2001	WIPO	Butlin et al.				
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	NR	Howe et al., "ZENECA ZD6169: A Novel K _{ATP} Channel Opener with <i>in Vivo</i> Selectivity for Urinary Bladder", J. Pharmacol. Exp. Ther. 1995, Vol. 274 (2), pp, 884-890							
	OR	Jackman et al., "Studies in the Field of Diuretics", J. Pharm. and Pharmacol., Vol. 12, 1960, pp. 648-655; CHEMICAL ABSTRACTS, vol. 55, no. 9, 1 May 1961, Columbus, Ohio, US; abstract no. 8336a, XP002107578 see abstract, column 8336, lines 8-9 &							
	PR	Li et al., "Zeneca ZD6169 and Its Analogs from a Novel Series of Anilide Tertiary Carbinols: <i>in vitro</i> K _{ATP} Channel Opening Activity in Bladder Detrusor", Pharmacology, 1995, Vol. 51, pp. 33-42							
	AR	Morris et al., "Hydrogen Bonding Parameters In The S.A.R. of Non-Steroidal Anti-Androgens", Pharmacol. Libr., 1987, Vol. 10, pp. 204-206							
	BR	Morris et al., "Non-Steroidal Antiandrogens. Design of Novel Compounds Based on an Infrared Study of the Dominant Conformation and Hydrogen-Bonding Properties of a Series of Anilide Antiandrogens", J. Med. Chem. 1991, Vol. 34, pp, 447-455							
	CR	Ohnmacht et al., "N-Aryl-3,3,3-trifluoro-2-hydroxy-2-methylpropanamides: K _{ATP} Potassium Channel Openers. Modifications on the Western Region", J. Med. Chem., 1996, Vol. 39 (23), pp. 4592-4601							

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NR	Russell, "Crystal Receptor Models In Medicinal Chemistry: Application To The Generation of Highly Potent Potassium Channel Openers", Bioorg. Med. Chem. Lett. 1996, Vol. 6 (7), pp. 913-918			
OR	Tenthorey et al.; "New Antiarrhythmic Agents. 3. Primary β -Amino Anilides", J. Med. Chem. 1979, Vol. 22 (10), pp. 1182-1186			
AR	Trivedi et al., "K-Channel Opening Activity of ZD6169 and Its Analogs: Effect on ^{86}Rb Efflux and ^3H -1075 Binding in Bladder Smooth Muscle", Pharmacology, 1995, Vol. 50 (6), pp. 388-397			
BR	Tucker et al., "Nonsteroidal Antiandrogens. Synthesis and Structure-Activity Relationships of 3-Substituted Derivatives of 2-Hydroxypropionanilides", J. Med. Chem., 1988, Vol. 31, pp. 954-959			
CR	Tucker et al., "Resolution of the Nonsteroidal Antiandrogen 4'-Cyano-3-[(4-fluorophenyl)sulfonyl]-2-hydroxy-2-methyl-3'-(trifluoromethyl)- propionanilide and the Determination of the Absolute Configuration of the Active Enantiomer", J. Med. Chem. 1988. Vol. 31 (4), pp. 885-887			
DR	Wakeling et al., "Receptor Binding And Biological Activity Of Steriodal and Nonsteriodal Antiandrogens", J. Steriod Biochem., 1981, Vol. 15, pp. 355-359			

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